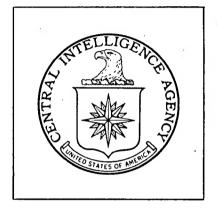
Top Secret



Industrial Facilities (Non-Military)

DIRECTORATE OF INTELLIGENCE

Basic Imagery Interpretation Report

Chi-nan Chemical Fertilizer Plant

Chi-nan, China

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INTRODUCTION	
The Chi-nan Chemical Fertilizer Plant is located in Shantung Province,	
8.5 nautical miles (nm) east-northeast of Chi-nan (Figure I). Construction of this plant was reportedly begun in 1958.1/ The plant is located in an industrial area on the flood plain of the Yellow River.	ļ
The Chi-nan Thermal Power Plant Huang-tai which probably furnishes electric power to the fertilizer plant, is located 3 nm southwest of the plant.	25 X 1
A good. probable all-weather road and a rail spur from the main rail	1
line between Chi-nan and Tsingtao serve the fertilizer plant. Mission was used for the graphical presentation in this	25 X 1
report; later missions were of poor quality.	
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BASIC DESCRIPTION

The main production facilities of the plant occupy an area roughly rectangular in shape and measuring about 2,500 by 1,400 feet.

No security measures were observed on good-quality photography of December 1966 when the plant was in mid-stages of construction. Due to the poor quality and small scale of subsequent imagery, it is not possible to determine if the plant has been secured.

Based on the basic chemicals and intermediate products available at this plant (see Figure 3), its main products are possibly ammonium bicarbonate and ammonium hydroxide. Either of these fertilizers could be produced and processed in the possible reactor building (Item I2) and the possible evaporation building (Item I3). The plant has coal handling facilities, gas retorts, and gas purification and ammonia synthesis facilities which are typical of those seen at plants producing ammonium nitrate and ammonium sulfate. However, there are no facilities to produce nitric acid or sulfuric acid which would be necessary in the production of ammonium nitrate and ammonium sulfate, respectively.

The major production components are depicted and annotated on Figure 3. Following is a brief construction chronology:

March 1965 - Plant in early stages of construction. Construction abandoned.

March 1966 - No change.

November 1966 - Construction resumed. Gas production and ammonia production areas were in mid-stages of construction.

January 1967 - Plant nearing completion, does not appear operational.

September 1967 - Construction complete, operational status cannot be determined.

January 1968 - Plant observed in operation.

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FIGURE 2. CHEMICAL FERTILIZER PLANT, CHI-NAN, CHINA,

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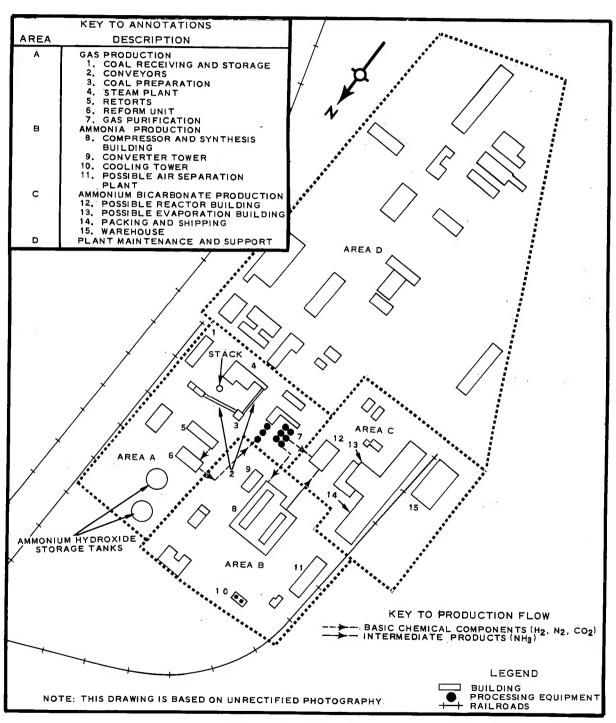


FIGURE 3. CHEMICAL FERTILIZER PLANT, CHI-NAN, CHINA

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